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CENTER OF PREVENTIVE MEDICINE,  
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**NuTRoNS 1: Nucleonica Training on Nuclear  
Science**

**Joint IAEA/EC Monaco Nuclear Science  
Training Course,  
Monaco, 12-15<sup>th</sup> October 2010**

# MILITARY MEDICINE CENTER

## CENTER OF PREVENTIVE MEDICINE infrastructure

### SECTOR FOR MICROBIOLOGY

Epidemiology

Bacteriology

Parasitology

### SECTOR FOR CHEMICAL ANALYSIS

Toxicology

Chemical Food and Water Analysis

### SECTOR FOR OCCUPATIONAL MEDICINE

Laboratory for Radiation Protection

Protection from Other Physical Influences

Sanitary Examinations

Medical Surveillance

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Center of preventive medicine Skopje Macedonia

# Control of radiation exposure in military field

## Environmental monitoring

Gamma spectroscopy and Gross  $\alpha$  and  $\beta$  activity analysis for sample of:

- Surface water,
- Drinking water,
- Soil,
- Food

Monitoring of outdoor ionizing radiation

Monitoring of outdoor non ionizing radiation

Monitoring of outdoor noise

## Monitoring of the working places

- Dose assessment on working places for ionizing radiation.
- Dose assessment on working places for non ionizing radiation.
- Measurement of noise on working places .

**We have collaboration with public institution.**

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## INSTRUMENTATION:

- ▣ Gamma spectroscopy system (canberra), germanium high-purity semiconductor detector, genie-2000 spectroscopy softwer.
- ▣ iSolo canberra system for Gross  $\alpha$  and  $\beta$  activity analysis.
- ▣ Berthold lb 123 universal detector for radiation
- ▣ Berthold lb 122 surface contamination detector
- ▣ Set of ionizing chambers
- ▣ Measurement of non ionization radiation for cellular networks and broadcast stations.
- ▣ Measurement of noise

# INSTRUMENTATION:

Gamma spectroscopy system (canberra),  
germanium high-purity semiconductor detector,  
genie-2000  
spectroscopy softwer.



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# INSTRUMENTATION:

iSolo canberra system  
for Gross  $\alpha$  and  $\beta$   
activity analysis.



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# INSTRUMENTATION:



Berthold lb 123 universal detector for radiation  
Berthold lb 122 surface contamination detector

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# INSTRUMENTATION:



**9102B Handheld  
Spectrum Analyzer for  
non ionization radiation  
100 kHz to 4 GHz**



**NARDA 8718 for total  
intensity of  
non ionization  
radiation  
300 KHz – 40 GHz**



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# INSTRUMENTATION:



**4916 Antenna Coupler  
for Radiation test of  
mobile phone**



**Handheld Spectrum  
Analyzer for low  
frequency  
1Hz to 10 MHz**



**Ellex EMF 58  
electro static field**



**Brüel&Kjær  
2250B Hand-held  
noise analyzer**

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A scenic view of a coastal town with red-tiled roofs, a harbor with boats, and mountains in the background. The town is nestled on a hillside overlooking a large body of water. The mountains in the background are hazy and green. The water is a deep blue-grey color. Several small boats are visible in the harbor. The town's buildings are densely packed and have a warm, reddish-brown hue from their roofs. The overall atmosphere is peaceful and picturesque.

Thank You  
Blagodaram

Questions